30 Activitie

Software Quality Activity Matrix

Software Development Phases

BOTTWIFE DEVELOPMENT I MUSES							
	Concept	Requirements	Design	Implementation	Integration & Test (Verification)	Acceptance Test (Validation)	Operations & Maintenance
Reviews	 Assess System Concept Review (SCR) Review Lessons Learned (LL) 	 Assess Software Specification Review (SSR) Capture/Review LL 	 Assess preliminary and critical design reviews (i.e., PDR and CDR) Assess peer reviews Capture/Review LL 	Assess peer reviews (e.g., code walkthroughs or inspections) Capture/Review LL	Witness test execution Assess Test Readiness Review (TRR) Capture/Review LL	Witness test execution Assess AR or ORR Assess MOR and FOR Capture/Review LL	 Assess software enhancement build reviews Capture/Review LL
Software Deliverables	 Develop Software Quality (SQ) task and resource allocation forecast Develop SW assurance requirements for SOW/MAR Assess Quality Manual and Quality Management System Assess System Requirements Specification 	Assess Software Management Plan (SMP) Assess Software Requirements Spec's (SRSs) and ICD's Assess/Approve Provider SQAP Develop/Approve Acquirer SQAP Assess S/W requirements traceability matrix (SRTM)	Assess Software Design documentation Assess initial development records (e.g., development folders) Assess Test Plans and procedures Assess updates to SRTM and allocation to S/W components and design	Assess code for compliance to standards Assess development records Assess final Test Plans and procedures Assess updates to SRTM Assess preliminary User's Guides	 Assess development records Assess Test Reports and test artifacts Assess/verify SRTM Assess final User's Guides 	 Assess development records Assess Test Reports and test artifacts Assess/verify SRTM Assess ADP/VDDs Assess/Approve Software Maintenance Plan 	 Assess updated software documentation Review SA Plan(s) to address O&M phase changes
Configuration Management		 Assess Configuration Management Plan (CMP) Assess CMP compliance Participate in CCBs 	Assess CMP complianceParticipate in CCBs	Assess CMP complianceParticipate in CCBs	 Assess CMP compliance Participate in CCBs 	 Assess CMP compliance Assess FCA and PCA artifacts Participate in CCBs 	 Assess CMP compliance Review operational baseline Participate in CCBs
Software Problem Reporting (SPR) and Corrective Action (CA)		Review and track action items Assess Software Problem Reporting (SPR) system	Review and track action items	 Assess, analyze & trend SPRs Review and track action items 	Assess, analyze & trend SPRs Review and track action items	Assess, analyze & trend SPRs Review and track action items	Assess, analyze & trend SPRs Review and track action items
Risk Management	 Assess Project's Continuous Risk Mgmt Approach Assess/Approve Risk Mgmt Plan 	 Identify, review, and assess software related risks 	 Identify, review, and assess software related risks 	 Identify, review, and assess software related risks 	 Identify, review, and assess software related risks 	 Identify, review, and assess software related risks 	 Identify, review, and assess software related risks
IV&V	Dominion to to be	■ Review IV&V Project Plans and technical issues (i.e., TIMs)	Review IV&V monthly reports and TIMs	Review IV&V monthly reports and TIMs	Review IV&V monthly reports and TIMs	Review IV&V monthly reports and TIMs	Review IV&V monthly reports and TIMs

Key Terms Used: Participate: to be a contributing member with defined roles and responsibilities

Perform: to lead or conduct a prescribed activity

Assess: to evaluate processes/products and provide assessment results and recommendations Review: to extract for informational purposes and use as potential input into SQ activity planning